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APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. **FILING DATE** 08/838,452 04/07/97 FARNWORTH W 91-62.17 **EXAMINER** MM91/0302 STEPHEN A GRATTON ART UNIT PAPER NUMBER 2764 SOUTH BAUN WAY LAKEWOOD CO 80228 2858 **Date Mailed:**

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

03/02/01

Office Action Summary	Application No. 08/83843 Examiner	52 RL	Applicant(s) FAR SEN	NWORTH Group Art Unit 2858	ETAL
-The MAILING DATE of this communication appears	on the cover sh	eet be	neath the c	orrespondence ac	idress-
Pridfr Reply		,			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE	<u>) </u>	MONTH(S) FROM THE MAIL	ING DATE
 Extensions of time may be available under the provisions of 37 CFR 1.13 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, ex Failure to reply within the set or extended period for reply will, by statute, 	within the statutory pire SIX (6) MONTH	minimu IS from	ım of thirty (30) the mailing dat	days will be considere	ed timely.
Status	٠				
☐ Responsive to communication(s) filed on	1-00				•
☐ This action is FINAL.					
☐ Since this application is in condition for allowance except fo accordance with the practice under <i>Ex parte Quayle</i> , 1935 (r formal matters, C.D. 1 1; 453 O.G	prose 3. 213.	cution as to	the merits is clos	ed in
Disposition of Claims					
\times Claim(s) $78-83$, $87-98$	}		is/are	pending in the appl	ication.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	95			withdrawn from cor	
□ Claim(s)			ic/ara	allowed.	
\times Claim(s) 78-82, 87, 88, 90	-93 96	,-9	8 is/are	rejected.	
□ Claim(s)				objected to.	
□ Claim(s)				bject to restriction of	or election
Application Papers		1.	require	•	
☐ See the attached Notice of Draftsperson's Patent Drawing F	Review PTO-948				
☐ The proposed drawing correction, filed on] disapprove	d.	
☐ The drawing(s) filed on is/are objected	I to by the Exami	ner.			
☐ The specification is objected to by the Examiner.					
$\hfill\Box$ The oath or declaration is objected to by the Examiner.					
Pri rity under 35 U.S.C. § 119 (a)-(d)				•	
 □ Acknowledgment is made of a claim for foreign priority unde □ All □ Some* □ None of the CERTIFIED copies of the □ received. □ received in Application No. (Series Code/Serial Number) 	priority documer		•		
☐ received in this national stage application from the Intern		PCT R	ule 1 7.2(a)).		
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Attachment(s)					
Information Disclosure Statement(s), PTO-1449, Paper No(s	s). <u> </u>	□Int	erview Sumr	nary, PTO-413	
☐ Notice of Reference(s) Cited, PTO-892				nal Patent Applicati	on, PTO-152
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U. S. Patent and Trademark Office PTO-326 (Rev. 9-97) ر. ' ر

Part of Paper No. 42

Application/Control Number: 08/838,452

Art Unit: 2858

- 1. Claims 83, 89, 94 and 95 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b) as being drawn to a non-elected species. Election was made without traverse in Paper No. 22.
- 2. Claims 78-82, 87, 88, 90-93 and 96-98 are rejected under 35 U.S.C. 103(a) as being unpatentable over Malhi et al '190 or Elder et al '850 in a first set in view of Nakano in a second set and Blonder at al or Bindra et al in a third set.

The first set shows all the major elements of the claimed invention except for the specific contacts and a clamping mechanism producing a specific force range. The first set does have a clamping mechanism. The second set shows a contact of the type claimed except it has a single raised portion instead of plural raised portions. The third set shows the use of contacts with plural raised portions. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have adapted the contact structure of the second modified to have plural raised portions in accord with the third set to the apparatus of the first set because one of ordinary skill in the art would realize that so doing would result in better contact being made. The force ranges claimed are considered obvious to one skilled in the art and would be scaled appropriately for that being tested. Applicants' arguments that Nakano has no clamping contest by the Examiner. No drawing exists in Nakano showing a clamping mechanism are contests by the Examiner. No drawing exists in Nakano showing a clamping mechanism, but Nakano indicates that the probe of Figure 2a "butts up against pad 25" and "deep scoring of pad 25 by probe contact 22 is prevented". (See page 5, lines 17 plus of Nakano et al.)

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clamp. All would seem equivalent and obvious to one skilled in the art. Note that the first set

uses clamps. Both Blonder et al and Bindra et al must use something akin to a clamp to hold the

parts together. Anything that is held together is "clamped". The size of the "clamp" is not

relevant.

Claims 78-82, 87, 88, 90-93 and 96-98 are rejected under 35 U.S.C. 103(a) as being 3.

unpatentable over Nakano in a first set in view of Blonder et al or Bindra et al in a second set.

The references were all discussed above. Note Figure 4 of the first set where a plate 40

bears a substrate 10. The plate 40 has external contacts 41. Lines 3 and 4 of page 2 of the first

set state that wafers or chips may be tested. It would have been obvious to one of ordinary skill

in the art at the time of the invention to have adapted raised portion features of the contacts of the

second set to the apparatus of the first set because one skilled in the art would realize that such

would enable better contact. One skilled in the art would realize that the chip and the test probe

would have to be held together somehow, as by a clamp mechanism. One skilled in the art would

apply a force sufficient to make good contact and not so great as to destroy that being tested.

Applicants' claimed ranges fall within that category.

Karlsen/nt

2-26-01